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L1 11 S THIOREDOXIN (P) INFLAMMATORY BOWEL DISEASE

ANSWER 4 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:577275 CAPLUS

DN 137:139121

TI Importance of thioredoxin for cytokine production in T lymphocytes. Potential role in inflammatory bowel disease

AU Sido, B.; Giese, T.; Herfarth, C.; Meuer, S. C.

CS Chirurgische Universitatsklinik, Germany

SO Chirurgisches Forum fuer Experimentelle und Klinische Forschung (2002) 145-147

CODEN: CFEKA7; ISSN: 0303-6227

PB Springer-Verlag

DT Journal

LA German

AB Thioredoxin (TRX) is a redox protein with proliferative, anti-apoptotic and co-cytokine functions. The physiol. role of TRX in normal T lymphocytes is poorly understood. Here we show that TRX is overexpressed in intestinal lamina propria T lymphocytes (LP-T) constitutively and after stimulation via CD2 as compared to peripheral blood T cells (PB-T). We provide evidence that TRX may contribute to 2 major functional characteristics of LP-T; (a) resistance of cytokine production to immunosuppression by cyclosporin A and (b) high level production

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IL-2 after exptl. CD2 stimulation as compared to PB-T. Therefore, overexpression of TRX in Crohn's disease, as demonstrated by immunohistochem. staining, may have major implications for our pathophysiol. understanding of inflammatory bowel disease.